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SEQUENCE LISTING

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<120> NOVEL APOPTOSIS PROTEINS

<130> A-68285/RMS/DHR

<140> US 09/762,491

<141> 2001-05-09

<150> PCT/US 99/17776

<151> 1999-08-06

<150> US 60/099,486

<151> 1998-09-08

<150> US 60/095,590

<151> 1998-08-06

<150> US 60/095,587

<151> 1998-08-06

<160> 10

<170> PatentIn version 3.1

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<212> DNA

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Ala Arg Ser Arg Pro Ser Phe His Pro Val Ser Asp Glu Leu Val Asn
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Tyr Val Asn Lys Arg Asn Thr Thr Trp Gln Ala Gly His Asn Phe Tyr
 35 40 45

Asn Val Asp Met Ser Tyr Leu Lys Arg Leu Cys Gly Thr Phe Leu Gly
 50 55 60

Gly Pro Lys Pro Pro Gln Arg Val Met Phe Thr Glu Asp Leu Lys Leu
 65 70 75 80

Pro Ala Ser Phe Asp Ala Arg Glu Gln Trp Pro Gln Cys Pro Thr Ile
 85 90 95

Lys Glu Ile Arg Asp Gln Gly Ser Cys Gly Ser Cys Trp Val Arg Pro
 100 105 110

Cys Trp Leu Val Gly Lys Arg Trp Arg Glu Ser Gly Ser Asn Thr Gly
 115 120 125

Glu Ser Trp Gly Ile Arg Gly Gly Asp Asn Ser Asp Lys Ala Ser Tyr
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Arg Asn Phe Leu Ser Pro Ser Phe His Gln Tyr Lys Asn His Asn Pro
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Ser Gly His Glu

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Leu Pro Val Lys Met Ala Ser Ile Phe Lys Asn Phe Val Ile Thr Tyr
 35 40 45

Asn Arg Thr Tyr Glu Ser Lys Glu Glu Ala Arg Trp Arg Leu Ser Val
 50 55 60

Phe Val Asn Asn Met Val Arg Ala Gln Lys Ile Gln Ala Leu Asp Arg
 65 70 75 80

Gly Thr Ala Gln Tyr Gly Val Thr Lys Phe Ser Asp Leu Thr Glu Glu
 85 90 95

Glu Phe Arg Thr Ile Tyr Leu Asn Thr Leu Leu Arg Lys Glu Pro Gly
 100 105 110

Asn Lys Met Lys Gln Ala Lys Ser Val Gly Asp Leu Ala Pro Pro Glu
 115 120 125

Trp Asp Trp Arg Ser Lys Gly Ala Val Thr Lys Val Lys Asp Gln Gly
 130 135 140

Met Cys Gly Ser Cys Trp Ala Phe Ser Val Thr Gly Asn Val Glu Gly
 145 150 155 160

Gln Trp Phe Leu Asn Gln Gly Thr Leu Leu Ser Leu Ser Glu Gln Glu
 165 170 175

Leu Leu Asp Cys Asp Lys Met Asp Lys Ala Cys Met Gly Gly Leu Pro
 180 185 190

Ser Asn Ala Tyr Ser Ala Ile Lys Asn Leu Gly Gly Leu Glu Thr Glu
 195 200 205

Asp Asp Tyr Ser Tyr Gln Gly His Met Gln Ser Cys Asn Phe Ser Ala
 210 215 220

Glu Lys Ala Lys Val Tyr Ile Asn Asp Ser Val Glu Leu Ser Gln Asn
 225 230 235 240

Glu Gln Lys Leu Ala Ala Trp Leu Ala Lys Arg Gly Pro Ile Ser Val
 245 250 255

Ala Ile Asn Ala Phe Gly Met Gln Phe Tyr Arg His Gly Ile Ser Arg
 260 265 270

Pro Leu Arg Pro Leu Cys Ser Pro Trp Leu Ile Asp His Ala Val Leu
 275 280 285

Leu Val Gly Tyr Gly Asn Arg Ser Asp Val Pro Phe Trp Ala Ile Lys
 290 295 300

Asn Ser Trp Gly Thr Asp Trp Gly Glu Lys Gly Tyr Tyr Tyr Leu His
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Arg Gly Ser Gly Ala Cys Gly Val Asn Thr Met Ala Ser Ser Ala Val
 325 330 335

Val Asp

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20 25 30

Gly Thr Val Phe Arg Ala Gln His Arg Lys Trp Gly Tyr Asp Val Ala
35 40 45

Val Lys Ile Val Asn Ser Lys Ala Ile Ser Arg Glu Val Lys Ala Met
50 55 60

Ala Ser Leu Asp Asn Glu Phe Val Leu Arg Leu Glu Gly Val Ile Glu
65 70 75 80

Lys Val Asn Trp Asp Gln Asp Pro Lys Pro Ala Leu Val Thr Lys Phe
85 90 95

Met Glu Asn Gly Ser Leu Ser Gly Leu Leu Gln Ser Gln Cys Pro Arg
100 105 110

Pro Trp Pro Leu Leu Cys Arg Leu Leu Lys Glu Val Val Leu Gly Met
115 120 125

Phe Tyr Leu His Asp Gln Asn Pro Val Leu Leu His Arg Asp Leu Lys
130 135 140

Pro Ser Asn Val Leu Pro Asp Pro Glu Leu His Val Lys Leu Ala Asp
145 150 155 160

Phe Gly Leu Ser Thr Phe Gln Gly Gly Ser Gln Ser Gly Thr Gly Ser
165 170 175

Gly Glu Pro Gly Gly Thr Leu Gly Tyr Leu Ala Pro Glu Leu Phe Val
180 185 190

Asn Val Asn Arg Lys Ala Ser Thr Ala Ser Asp Val Tyr Ser Phe Gly
195 200 205

Ile Leu Met Trp Ala Val Leu Ala Gly Arg Glu Val Glu Leu Pro Thr
210 215 220

Glu Pro Ser Leu Val Tyr Glu Ala Val Cys Asn Arg Gln Asn Arg Pro
225 230 235 240

Ser Leu Ala Glu Leu Pro Gln Ala Gly Pro Glu Thr Pro Gly Leu Glu
245 250 255

Gly Leu Lys Glu Leu Met Gln Leu Cys Trp Ser Ser Glu Pro Lys Asp
260 265 270

Arg Pro Ser Phe Gln Glu Cys Leu Pro Lys Thr Asp Glu Val Phe Gln
275 280 285

Met Val Glu Asn Asn Met Asn Ala Ala Val Ser Thr Val Lys Asp Phe
290 295 300

Leu Ser Gln Leu Lys Ser Ser Asn Arg Arg Phe Ser Ile Pro Glu Ser
305 310 315 320

Gly Gln Gly Gly Thr Glu Met Asp Gly Phe Arg Arg Thr Ile Glu Asn
325 330 335

Gln His Ser Arg Asn Asp Val Met Val Ser Glu Trp Leu Asn Lys Leu
340 345 350

Asn Leu Glu Glu Pro Pro Ser Ser Val Pro Lys Lys Cys Pro Ser Leu
355 360 365

Thr Lys Arg Ser Arg Ala Gln Glu Glu Gln Val Pro Gln Ala Trp Thr
370 375 380

Ala Gly Thr Ser Ser Asp Ser Met Ala Gln Pro Pro Gln Thr Pro Glu
385 390 395 400

Thr Ser Thr Phe Arg Asn Gln Met Pro Ser Pro Thr Ser Thr Gly Thr
405 410 415

Pro Ser Pro Gly Pro Arg Gly Asn Gln Gly Ala Glu Arg Gln Gly Met
420 425 430

Asn Trp Ser Cys Arg Thr Pro Glu Pro Asn Pro Val Thr Gly Arg Pro
435 440 445

Leu Val Asn Ile Tyr Asn Cys Ser Gly Val Gln Val Gly Asp Asn Asn
450 455 460

Tyr Leu Thr Met Gln Gln Thr Thr Ala Leu Pro Thr Trp Gly Leu Ala
 465 470 475 480

Pro Ser Gly Lys Gly Arg Gly Leu Gln His Pro Pro Pro Val Gly Ser
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Gln Glu Gly Pro Lys Asp Pro Glu Ala Trp Ser Arg Pro Gln Gly Trp
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Tyr Asn His Ser Gly Lys Glx
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 <213> Artificial sequence

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<400> 7
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<210> 8
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<400> 8
 gcuccaauc c 11

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 gctccaattc c 11

<210> 10
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<223> DEVD linker sequence

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